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RAW SEQUENCE LISTING   DATE: 03/08/2002 P·5
PATENT APPLICATION: US/10/081,124   TIME: 14:16:56

        Input Set : D:\Seqlist.txt
        Output Set: N:\CRF3\03082002\J081124.raw

    4 <110> APPLICANT: Chan, Vivien W.
    5   Escobedo, Jaime
    6   Reinhard, Christoph
    7   Randazzo, Filippo
    8   Lamson, George
    9   Garcia, Pablo Domingo
   10   Moler, Edward J.
   12 <120> TITLE OF INVENTION: GENE PRODUCTS DIFFERENTIALLY EXPRESSED
   13   IN CANCEROUS COLON CELLS AND THEIR METHODS OF USE
   16 <130> FILE REFERENCE: 16336.002
C--> 18 <140> CURRENT APPLICATION NUMBER: US/10/081,124
   19 <141> CURRENT FILING DATE: 2002-02-21
   21 <150> PRIOR APPLICATION NUMBER: 60/270,855
   22 <151> PRIOR FILING DATE: 2001-02-21
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   26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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   29 <211> LENGTH: 527
   30 <212> TYPE: DNA
   31 <213> ORGANISM: Homo sapiens
   33 <400> SEQUENCE: 1
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   35 ttggctcgtg ccttgcactg gggtgccaag ggctggaggc cctgccgctg gccttgtcct 120
   36 ccttgggcct cacgcccct tcggggggtgg ccggttctcc ccatcacctc tctggggcag 180
   37 tcacaccacc tgttaagcat caagctacca cagaggctcc ggccacctgg gctccaccag 240
   38 cccagcccc ctgggctccg tgtgcgctgg gcctcatccc catctatggg aggaaactga 300
   39 agctcaggag gctgtgtggc ttgcggggtc tctgggttct gggccccact gttccccagt 360
   40 gaagcccttg tgggaaggtt ccgggagcag gtggtgtcct cagagcagcc tcgcctgctg 420
   41 accccactgg gagaggcgcc gtgcctcggg ccctggtgg gagctccgct ggctcctgtc 480
   42 tgaacctcct cgcagggcca aaggctggct tggcctgtgt ttcccct   527
   44 <210> SEQ ID NO: 2
   45 <211> LENGTH: 594
   46 <212> TYPE: DNA
   47 <213> ORGANISM: Homo sapiens
   49 <400> SEQUENCE: 2
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   51 ggccagtccg agaccatcct gggcggcctg gggctcgggc tgggcggtgg cgactgcaga 120
   52 gtgaaaattg ccaccaaggc caacccttgg gatggaaaat cactaaagcc tgacagtgtc 180
   53 cggtcccagc tggagacgtc attgaagagg ctgcagtgtc cccaagtgga cctcttctac 240
   54 ctacacgcac ctgaccacgg caccccggtg gaagagacgc tgcatgcctg ccagcggctg 300
   55 caccaggagg gcaagttcgt ggagcttggc ctctccaact atgctagctg ggaagtggcc 360
   56 gagatctgta ccctctgcaa gagcaatggc tggatcctgc ccactgtgta ccagggcatg 420
   57 tacaacgcca ccacccggca ggtggaaacg gagctcttcc cctgcctcag gcactttgga 480

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PATENT APPLICATION: US/10/081,124   TIME: 14:16:56

Input Set : D:\Seqlist.txt
Output Set: N:\CRF3\03082002\J081124.raw

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58 ctgaggttct atgcctacaa ccctctggct gggggcctgc tgactggcaa gtacaagtat 540
59 gaggacaagg acgggaaaca gcctgtgggc cgcttctttg ggaatagctg ggct       594
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62 <211> LENGTH: 532
63 <212> TYPE: DNA
64 <213> ORGANISM: Homo sapiens
66 <400> SEQUENCE: 3
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68 tccgagattg gggtcgggtc actgcctcat ccaccggagc gatggcgttt ctccgaagca 120
69 tgtggggcgt gctgactgcc ctgggaaggt ctggagcaga gctgtgcacc ggctgtggaa 180
70 gtcgactgcg ctccccttc agttttgtgt atttaccgag gtggttttca tctgtcttgg 240
71 caagttgtcc aaagaaacct gtaagttctt accttcgatt ttctaaagaa caactaccca 300
72 tatttaaagc tcagaaccca gatgcaaaaa ctacagaact aattagaaga attgcccagc 360
73 gttggaggga acttcctgat tcaaagaaaa aaatatatca agatgcttat agggcggagt 420
74 ggcaggtata taaagaagag ataagcagat ttaaagaaca gctaactcca agtcagatta 480
75 tgtctttgga aaaagaaatc atggacaaac atttaaaaag gaaagctatg ac           532
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78 <211> LENGTH: 506
79 <212> TYPE: DNA
80 <213> ORGANISM: Homo sapiens
82 <400> SEQUENCE: 4
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84 ggagcggggt ctctagccgc tgggtttctg ctccgaccgg aacctgtacg agctgccagt 120
85 gaacgacgga ggctgtatcc cccgagcgct gagtacccag acctccgaaa gcacaacaac 180
86 tgcatggcca gtcacctgac cccagcagtc tatgcacggc tctgcgacaa gaccacaccc 240
87 actggttgga cgctagatca gtgtatccag actggcgtgg acaaccctgg ccaccccttc 300
88 atcaagactg tgggcatggt ggctggagat gaggagacct atgaggtatt tgctgacctg 360
89 tttgaccctg tgatccaaga gcgacacaat ggatatgacc cccggacaat gaagcacacc 420
90 acggatctag atgccagtaa aatccgttct ggctactttg atgagaggga tgtattgtcc 480
91 tctagagtca gaactggccg aagcat                                        506
93 <210> SEQ ID NO: 5
94 <211> LENGTH: 365
95 <212> TYPE: DNA
96 <213> ORGANISM: Homo sapiens
98 <400> SEQUENCE: 5
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100 catggatgct cccaagggtt agggactgca ttgagcaggc ccacctgctt cccagaacct 120
101 cctcactagg gctgagcacc ttctctgagt agagtcttca tccttagcac cacagacttc 180
102 tgaggtcctg tgccctttac ttgctggtga ggtgtcatag gtagaaaagg gctggccctt 240
103 cagatctggg ggtgtggtga gtggcaagta agggcagaat tttaggagaa ccagagtcac 300
104 ccgctggctc tactgagatt gttcacccca gaatcctttt gtgttttttt gtggtttttt 360
105 ttttt                                                               365
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108 <211> LENGTH: 632
109 <212> TYPE: DNA
110 <213> ORGANISM: Homo sapiens
112 <400> SEQUENCE: 6
113 cctcccctta ttcttccttg aagtgcccga gcatgtaggg caagaaggaa ggctgaagcg 60
114 ctgtccctag gaggaatttc tccttcaggg gagcctcagt tttgcccatt tatctaattg 120
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RAW SEQUENCE LISTING   DATE: 03/08/2002
PATENT APPLICATION: US/10/081,124   TIME: 14:16:56

Input Set : D:\Seqlist.txt
Output Set: N:\CRF3\03082002\J081124.raw

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115 aatcagtttt ttacccaatc ccccgatttt gtaggataat ctcccttatc taaagtcaac 180
116 tgattatgga ctttaatcac atctacaaaa cacttccatg gcgacagcta gatgagtgtt 240
117 tgaataactg ggactgtagc ccgtccaagt tgacacataa aactgaccat cgggccgggg 300
118 gcggtggctc acgcctgtaa tcccaacact ttgggagccc gaggcgggcg gatcacaagg 360
119 tcaggagttc gagaccagcc tggccaacac ggtgaaaccc cgactctact aaaaatacaa 420
120 aaaattagcc cgggtgtggt ggcacacacc tgtagtccca gctactcggg aggctgaggc 480
121 aggagaatcg tttgaacctg ggaggcagag gttgcagtga gccaagatca cactattgca 540
122 ctccagcctg ggcgacaggg caagactctg tctcaaaaaa ataaaaaact gaccatctag 600
123 tccttgtcat ctgggcaccc tcaaaaaaag cc                               632
125 <210> SEQ ID NO: 7
126 <211> LENGTH: 486
127 <212> TYPE: DNA
128 <213> ORGANISM: Homo sapiens
130 <400> SEQUENCE: 7
131 cagcctgcct ttccataaag tcacctaggt gaggataggc gcgggagcct cggcatgaca 60
132 ccatggagat cggggccctc ttcccagtgg gttcactcct tttcacacct gctgggtccc 120
133 tcctcaccca gcaggcctgg tccacctctc attgcaagcc ccaagcactg agccagcagg 180
134 tgccagggag ccacccgccc cccatagctt ctgcacacct cagactcacc ccatcacctt 240
135 ggcagcaaag cactggctct gccgtctgac ccctgatcca ggcagccccc tccgcagaga 300
136 aaagggttgg ggagaagcct ctgcagtcct ggaagatgtg gggtgctggg tgagaggcat 360
137 cagcccccac aagtatgttt ttgtgtctta agatagcagt ttactttgaa aaagtgaaaa 420
138 aggcttccgg gctgtcctct gcccagtgag atggaggacg ctagagaaag tgctgagtgt 480
139 cccgag                                                           486
141 <210> SEQ ID NO: 8
142 <211> LENGTH: 579
143 <212> TYPE: DNA
144 <213> ORGANISM: Homo sapiens
146 <400> SEQUENCE: 8
147 ttccgttgct gtcggctatc ccacaccctg cacaccttag ataaaaagaa cattttaaaa 60
148 gcagagttca ctttcactcc agtctcccct cttttgccct cactgaagcc aaaccacaga 120
149 agactttgag gaatgagaga caaatgaggt agagctcacc tgtgctcacc agctccgtca 180
150 gggtggtcag ccgacccctt tccctgggaa ccccacttct ctctgtggct ggcttggttg 240
151 tcgggggtga gatgccatat tgattacagg gcagcaaaga accagtacca ggaatttact 300
152 tgaccattcc ccttattttt catctagagg aatctcggat tcagcccttt cattgctaag 360
153 acaccttttc actgaggttc ttaccagctc agccaaatct ccactctgct atagcagaag 420
154 caataatgtt tgctttaaaa agatttcttg acctatgcct tttcttagaa aagttgatag 480
155 attagttaga acttcagatc atcagatcag tctcaaatgg gtttcttgga atttatattt 540
156 gacaatattt atactatacc aaactcattt gcagttctt                       579
158 <210> SEQ ID NO: 9
159 <211> LENGTH: 342
160 <212> TYPE: DNA
161 <213> ORGANISM: Homo sapiens
163 <400> SEQUENCE: 9
164 acatttgtta attttctttt tcctctcatt tttctattga atgatttgtc cttttatctc 60
165 atggatttgt taggagttct cttgtatttt ctgtatttta tgtctgttgc caatgttttc 120
166 tcctacttag ccatttggct ttaattttac atggtgtctg cttaaataaa tgttttatat 180
167 ttgtatacaa tcaaattgat taattttcat gacttatttc acgatataaa gcaaattatt 240
168 ttctaagaca tttacagtgt ttgttttcct atgtttacat gtgctcattt cacgtcatgt 300
169 attttcctct acgacatgtt tctgtgtgag tagttaacat gt                    342
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PATENT APPLICATION: US/10/081,124   TIME: 14:16:56

Input Set : D:\Seqlist.txt
Output Set: N:\CRF3\03082002\J081124.raw

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172 <211> LENGTH: 288
173 <212> TYPE: DNA
174 <213> ORGANISM: Homo sapiens
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178 agcattccct accaggacct ccctcacctg gtcaatgcag acggacagta cctcttctgc 120
179 aggtactgga aacccacagg cacacccaag gccctcatct ttgtgtccca tggagccgga 180
180 gagcacagtg gccgctatga agagctggct cggatgctga tggggctgga cctgctggtg 240
181 ttcgcccacg accatgttgg ccacggacag agcgaagggg agaggatg            288
183 <210> SEQ ID NO: 11
184 <211> LENGTH: 363
185 <212> TYPE: DNA
186 <213> ORGANISM: Homo sapiens
188 <400> SEQUENCE: 11
189 ccgttgctgt cgcttgacag agtctgcccc ctcccccact gcaccccaag agagagagcc 60
190 ccagccagcg gaacagtttc tattacccc tccctgcccc cagacccatg tgatttctgc 120
191 tttcttcttt agcaagatat tctggtttct agataaggaa gagtctctaa tgagcccccg 180
192 agccccagtc tcttcagact catggattgg tctgaggggt ctgaacgtct cctagccaat 240
193 cagaactggc tgtggaccac cctagcacgg ccacctctca gggccactgg caggccttcc 300
194 tgagttagat ttgtagttgc atatttagct ttgcacattt gaaataaacc acggttgcag 360
195 ccc                                                          363
197 <210> SEQ ID NO: 12
198 <211> LENGTH: 368
199 <212> TYPE: DNA
200 <213> ORGANISM: Homo sapiens
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204 cctactggag acaggctgga ctcagctaca tccgatactc ccagatctgt gcaaaagcag 120
205 tgagagatgc actgaagaca gaattcaaag caaatgctga gaagacttct ggcagcaacg 180
206 taaaaattgt gaaagtaaag aaggaataat ctaccctgac taaagcttga aatgctacat 240
207 ttccaaggtg aagatgtgtg ggcacatgtt atggcagatt gaaaaggatc tcattccatg 300
208 ggaaaaaaaa aaatcctgtc ttgttcataa attgacaatg tcaataaatt gaaatatggt 360
209 tcactgtt                                                     368
211 <210> SEQ ID NO: 13
212 <211> LENGTH: 202
213 <212> TYPE: DNA
214 <213> ORGANISM: Homo sapiens
216 <400> SEQUENCE: 13
217 tgccaaatca agagagatat caacagaagg agagccatgc gtactttcta aaaactgatg 60
218 gtgaaaagct cttaccgaag caaccaaatt cagcagacac ctcttcagct tgagttcttc 120
219 accatctttt gcaactgaaa tatgatggat atgcttaagt acaactgatg gcatgaaaaa 180
220 aatcaaattt ttgatttatt at                                      202
222 <210> SEQ ID NO: 14
223 <211> LENGTH: 534
224 <212> TYPE: DNA
225 <213> ORGANISM: Homo sapiens
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RAW SEQUENCE LISTING   DATE: 03/08/2002
PATENT APPLICATION: US/10/081,124   TIME: 14:16:56

Input Set : D:\Seqlist.txt
Output Set: N:\CRF3\03082002\J081124.raw

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229 cagcggagcc cgagcccgag cccgaacccg aacctgaacc tgcgctggac ctcgcggcgc 120
230 tgcgtgcggt cgcctgcgac tgcctgctgc aggagcactt ctacctgcgg cgcaggcggc 180
231 gcgtgcaccg ttacgaggag agcgaggtca tatctttgcc cttcctggat cagctggtgt 240
232 caaccctcgt gggcctcctc agcccacaca acccggccct ggccgctgcc gccctcgatt 300
233 atagatgccc agttcatttt tactgggtgc gtggtgaaga aattattcct cgtggtcatc 360
234 gaagaggtcg aattgatgac ttgcgatacc agatagatga taaaccaaac aaccagattc 420
235 gaatatccaa gcaactcgca gagtttgtgc cattggatta ttctgttcct atagaaatcc 480
236 ccactataaa atgtaaacca gacaaacttc cattattcaa acggcagtat gaaa       534
238 <210> SEQ ID NO: 15
239 <211> LENGTH: 546
240 <212> TYPE: DNA
241 <213> ORGANISM: Homo sapiens
243 <400> SEQUENCE: 15
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245 tgcccgacga ggtgctgggg ctcatctacg cgcagacggt ggtctgggtg gggagttttt 120
246 tctgcccttt actgcccctg cttaacacgg tcaagttcct gctgcttttc tacctgaaga 180
247 agcttaccct cttctccacc tgctccccgg ctgcccgcac cttccgggcc tccgcggcga 240
248 atttcttttt cccccttggtc cttctcctgg gtctggccat ctccagcgtt ccctgcttt 300
249 acagcatctt cctgatcccg ccttctaagc tttgtggtcc attccggggg cagtcgtcca 360
250 tctgggccca gatccctgag tctatttcca gcctccctga gaccacccag aatttcctct 420
251 tcttcctggg gacccaggct tttgctgtgc cccttctgct gatctccagc atcctgatgg 480
252 cgtacactgt ggctctggct aactcctacg gacgcctcat ctctgagctc aaacgtcaga 540
253 gagaga                                                         546
255 <210> SEQ ID NO: 16
256 <211> LENGTH: 300
257 <212> TYPE: DNA
258 <213> ORGANISM: Homo sapiens
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263 tttttgggtt ttttcccaaa aatttttttt tttttgggaa gaaaaaaaca cccccttggg 180
264 ggggcccttg ggaaacccccc ttttttccaa tttttaaaaa aaatttttcc cccaaagggg 240
265 atttaaaaaa gacttttggg aaaaggcacc ccttttttcc ccaaaacttt ttttttttgg 300
268 <210> SEQ ID NO: 17
269 <211> LENGTH: 536
270 <212> TYPE: DNA
271 <213> ORGANISM: Homo sapiens
273 <400> SEQUENCE: 17
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275 gcagctggag aaggctccgc gaagcgatcg caacccgagc caggggttgc ggacgaggat 120
276 cagacggcct gaaactccgg actgtgggcc acctagtccg gcaggatctt ccgccagcgc 180
277 ctccaccttc agatgtacct ccagcctttc actcctcggt cctccggagc ccacaacctg 240
278 gacacagctc ctcaagacag gtagcatgga ccttaaggcg acaagagagg ggccccagga 300
279 gtggcaggag aggatccccg accaccctag ggaaacttcg tgcgataatt gctgcttatg 360
280 cccgtgttgc gtgaagacac ggaacttcac cttttctggg accttctttg ggggagaatg 420
281 gtggacagtg ggattctgga aacttgtttg ggacccccaa gggttaaagc cacccagcat 480
282 tcacgaagag cacctgaagt atggaagctg agaagagtta ttggaatcac ccccac       536
284 <210> SEQ ID NO: 18
285 <211> LENGTH: 467
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Use of n and / or Xaa has been detected in the
Sequence Listing. Review the Sequence Listing
to ensure a corresponding explanation is present
in the <220> to <223> fields of each sequence
using n or Xaa.

VERIFICATION SUMMARY   DATE: 03/08/2002
PATENT APPLICATION: US/10/081,124   TIME: 14:16:57

Input Set : D:\Seqlist.txt
Output Set: N:\CRF3\03082002\J081124.raw

L:18 M:270 C: Current Application Number differs, Replaced Current Application Number
L:818 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:820 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:821 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:822 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:823 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:824 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:825 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:827 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:865 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:1175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74
L:1182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74
L:1185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74
L:1186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74
L:1206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
L:1373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86
L:1467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92
L:1606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101
L:1812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114
L:2539 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:161
L:2540 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:161
L:2545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:161
L:2547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:161
L:2549 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:161
L:2811 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:178
L:2819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:178
L:2821 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:178
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L:2838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:179
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L:2844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:179
L:2875 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:181
L:2876 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:181
L:2877 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:181
L:2885 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:181
L:2886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:181
L:2974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:186
L:3020 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:189
L:3382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:212
L:3402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:213
L:3444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:215

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/081,124

DATE: 03/08/2002
TIME: 14:16:57

Input Set : **D:\Seqlist.txt**
Output Set: **N:\CRF3\03082002\J081124.raw**

L:3555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222
L:3556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222
L:3722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:234